

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A design support system, comprising:

a database holding device which divides a history of design work for creating a shape model for each part of the shape model and holds a plurality of design work histories as unit work history data; and

a control section configured to:

~~a selection device which fetches~~ fetch at least two unit work history data selected from the plurality of unit work history data held by the database holding device; and

~~a combining device which combines~~ combine the at least two selected unit work history data and ~~outputs output~~ design work data for creating a combined shape model which is formed by joining part shape models corresponding to the respective unit work history data.

2. (Currently Amended) A design support system which outputs work data for creating a shape model of a design target in order to create the shape model of the design target conforming to a standard shape, comprising:

a database holding device which holds a plurality of unit work history data which are obtained by dividing a history of a design work performed with reference to a first standard shape for each design work history corresponding to a shape model of a predetermined portion; and

a control section configured to:

~~a receiving device which accepts~~ receive designation of data about a second standard shape;

~~a selecting device which fetches~~ fetch multiple unit work history data selected from the multiple unit work history data held by the database holding device; and
~~an output device which combines~~ combine each of the fetched unit work history data, ~~reproduces~~ reproduce design work with reference to the designated second standard shape for the design works performed with reference to the first standard shape among the design works contained in the unit work history data, and ~~outputs~~ output work data corresponding to a combined shape model conforming to the second standard shape.

3. (Currently Amended) The design support system according to claim 2, ~~further comprising:~~ wherein the control section is further configured to:

~~a device which computes~~ compute at least one technical characteristic value of [[a]] the combined shape model which is created from the output work data.

4. (Currently Amended) The design support system according to claim 3, wherein: the database holding device accumulates technical conditions, which ~~should~~ are to be met by a part shape model to be created according to each unit work history data, in association with each unit work history data; and ~~further comprising:~~ wherein the control section is further configured to:

~~a device which compares~~ compare the computed technical characteristic value with the technical conditions related to unit work history data which is the origin of the work data.

5. (Currently Amended) The design support system according to claim 2, ~~further comprising:~~ wherein the control section is further configured to:

~~a device which receives~~ receive designation of data about a third standard shape; wherein:

the work data is converted by reproducing a design work with reference to the designated third standard shape for work included in the work contained in the output work data and performed with reference to the second standard shape, and ~~conversion converted~~ work data corresponding to [[a]] ~~the~~ shape model conforming to the third standard shape is output.

6. (Currently Amended) The design support system according to claim 1, ~~further comprising:~~ wherein the control section is further configured to:

~~a device which analyzes a analyze the history of design work and extracts extract input work carried out by a person in charge of work when unit historical data is created; and the design support system further including:~~

~~a device display section which shows the extracted input work to the person in charge of work to receive request input of design support information; and~~

~~a device database which records the design support information in a history of the design work and divides the history of the design work into unit historical data when the design support information is input so to show when the design support information is reused.~~

7. (Currently Amended) A design support system which holds a series of design work histories to reuse as work history data and creates a shape based on the work history data, comprising:

~~a device control section which analyzes the work history data to extract input work carried out by a person in charge of work;~~

~~a device display section which shows the extracted input work to the person in charge of work to receive request input of design support information; and~~

a device database which records the design support information in the work history data when the design support information is input ~~so to show when the design support information is reused.~~

8. (Currently Amended) The design support system according to claim 7, further comprising: wherein the database is further configured to:

~~a device which generates~~ generate unit work history data by dividing the work history data into predetermined work units for [[each]] a design target.

9. (Currently Amended) A design support system, comprising:
a device database which accumulates unit work history data which is formed by dividing a history of past design work into work units determined for [[each]] a design target and contains design support information related to input work among the design work;

a device control section configured to:
which selectively [[shows]] show the unit work history on a display section upon receiving designation of the design target;

~~a device which creates~~ create a shape by sequentially reproducing the selected unit work history; and

~~a device which provides~~ provide design support information related to input work when the input work is demanded while the unit work history is being reproduced.

10. (Currently Amended) The design support system according to claim 9, further comprising: wherein the control section is further configured to:

~~a device which judges~~ judge whether the work history to be reproduced agrees with predetermined guidance display conditions while the unit work history is being reproduced; and wherein

a device which implements the display section is further configured to implement a guidance display determined in connection with the guide display conditions if the work history agrees with the guidance display conditions.

11. (Currently Amended) A design support system, comprising:

a device database which accumulates unit work history data which is formed by dividing a history of past design work into work units determined for [[each]] a design target and contains design support information related to an input work among the design work;

a first display device which shows a shape of [[a]] the design target obtained by sequentially reproducing a history of the design work with reference to the unit work history data; and

a second display device which shows design support information contained in the unit work history data by reproducing a history of a design work prior to the reproduction at the first display device.

12. (Original) A design support method using a computer, wherein:

a series of design work histories is held in multiple quantities as work history data in a database in order to create a part shape model;

at least two selected work history data are fetched from the held multiple work history data according to an instruction input to a processor; and

design work data for creating a one-piece shape model by combining the at least two fetched work history data and connecting part shape models corresponding to the respective work history data is output.

13. (Original) A design support method which uses a computer to create a shape model of a design target conforming to a desired standard shape according to input to its processor and outputs work data for creating the shape model of the design target, comprising the steps of:

holding a plurality of histories of design work performed in the past with reference to the respective standard shapes in a database as work history data;

accepting designation of data about a second standard shape, which is a desired standard shape, according to an instruction input to the processor;

fetching the selected multiple work history data from the multiple work history data held in the database; and

combining respective pieces of the fetched work history data, reproducing design work with reference to the designated second standard shape for the design work performed in the past with reference to the respective standard shapes among the design work contained in the work history data, and outputting work data corresponding to a combined shape model conforming to the second standard shape.

14. (Currently Amended) A design support method which holds a series of design work histories as work history data in order for reuse and generates a shape by a computer according to the work history data according to an instruction input to a processor, comprising the steps of:

analyzing the work history data upon input to the processor to extract the input work performed by a person in charge of work; [[and]]

showing the extracted input work to the person in charge of work to ~~receive request~~ input of design support information; and[[,]]

when the design support information is input, recording the design support information in the work history data ~~so to show it at the time of reuse.~~

15. (Currently Amended) A design support method, comprising the steps of:
accumulating, using a computer, unit work history data which is formed by dividing a history of past design work into work units determined for [[each]] a design target and contains design support information related to input work among the design work;
showing the unit work history selectively upon receiving designation of [[a]] the design target by the computer;
creating a shape by sequentially reproducing the selected unit work history; and
providing the design support information related to input work when the input work is demanded while the unit work history is being reproduced.

16. (Original) The design support method according to claim 15, wherein it is judged whether the work history to be reproduced conforms to predetermined guidance display conditions while the unit work history data is being reproduced by the computer and, if it conforms to the guidance display conditions, a guidance display determined in connection with the guide display conditions is performed.

17. (Original) A recording medium storing a design support program and being computer-readable, the design support program comprising:
a module holding a series of design work histories as a plurality of work history data for creation of a part shape model;
a module fetching at least two selected work history data from the held multiple work history data; and

a module outputting design work data for creating a one-piece shape model by combining the at least two fetched work history data and connecting part shape models corresponding to the respective work history data.

18. (Original) A recording medium storing a design support program and being computer-readable, the design support program comprising:

a module outputting work data for creating a shape model of a design target in order to create the shape model of the design target conforming to a desired standard shape;

a module holding a history of design work performed with reference to a first standard shape as a plurality of work history data;

a module receiving designation of data about a second standard shape which is a desired standard shape;

a module fetching the selected multiple work history data from the held multiple work history data; and

a module combining each of the fetched work history data, reproducing design work with reference to the designated second standard shape for the design works performed with reference to the first standard shape among the design works contained in the work history data, and outputting work data corresponding to a one-piece shape model conforming to the second standard shape.

19. (Currently Amended) A recording medium storing a design support program and being computer-readable, the design support program comprising:

a module holding a series of design work histories to reuse as work history data;

a module analyzing the work history data to extract input work performed by a person in charge of work;

a module showing the extracted input work to the person in charge of work to ~~receive request~~ input of design support information; and

a module recording the design support information in the work history data when the design support information is input ~~in order to show it when reused.~~

20. (Currently Amended) A recording medium storing a design support program and being computer-readable, the design support program comprising:

a module accumulating unit work history data which is formed by dividing a history of past design work into work units determined for [[each]] a design target and contains design support information related to input work among the design work;

a module selectively showing the unit work history upon receiving designation of the design target;

a module creating a shape by sequentially reproducing the selected unit work history; and

a module providing design support information related to an input work when the input work is demanded while the unit work history is being reproduced.

21. (Original) The recording medium being computer-readable according to claim 20, wherein:

the design support program stored in the recording medium further includes a module judging whether the work history to be reproduced agrees with predetermined guidance display conditions while the unit work history is being reproduced and, if the work history agrees with the guidance display conditions, implements a guidance display determined in connection with the conditions.